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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	10/687,519
Filing Date	10/16/2003
First Named Inventor	Truskett et al.
Art Unit	1762
Examiner Name	Chen, Bret P.
Attorney Docket Number	P75-17-03

Sheet 1 of 2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	J1	US- 2005/0064344-A1	3/24/2005	Bailey et al.	
	J2	US- 2005/0082253-A1	4/21/2005	Cherala et al.	
	J3	US- 2005/0051698-A1	3/10/2005	Sreenivasan et al.	
	J4	US- 2005/0074512-A1	4/7/2005	McMackin et al.	
	J5	US- 2005/0072757-A1	4/7/2005	McMackin et al.	
	J6	US- 2005/0072755-A1	4/7/2005	McMackin et al.	
	J7	US- 2004/0170770-A1	9/2/2004	Nguyen et al.	
	J8	US- 2004/0256764-A1	12/23/2004	Choi et al.	
	J9	US- 2004/0146792-A1	7/29/2004	Nimmakayala et al.	
	J10	US- 6,955,868-B2	10/18/2005	Choi et al.	
	J11	US- 2005/0189676-A1	9/1/2005	Sreenivasan	
	J12	US- 2004/0251775-A1	12/16/2004	Choi et al.	
	J13	US- 2004/0124566-A1	7/1/2004	Sreenivasan et al.	
	J14	US- 2005/0187339-A1	8/25/2005	Xu et al.	
	J15	US- 2005/0100830-A1	5/12/2005	Xu et al.	
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

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of

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	J16	Sreenivasan et al., "An Imprint Lithography System to Produce a Light to Impinge upon and Polymerize a Liquid in Superimposition with Template Overlay Marks," U.S. Patent Application 10/864,214, filed with USPTO June 9, 2004	
	J17	Willson et al., "Step and Flash Imprint Lithography," U.S. Patent Application 10/806,051, filed with UPSTO March 22, 2004	
		NOT PUBLIC	

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Substitute for form 1449A/PTO <h1>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> (use as many sheets as necessary)				Complete if Known	
				Application Number	10/687,519
				Filing Date	10/16/2003
				First Named Inventor	Truskett et al.
				Group Art Unit	1762
				Examiner Name	Chen, Bret P.
				Attorney Docket Number	P75-17-03
Sheet	1	of	4		

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Complete if Known**Application Number**

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Substitute for form 1449B/PTO		Complete if Known	
		Application Number	10/687,519
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date	10/16/2003
		First Named Inventor	Truskett et al.
		Group Art Unit	1762
		Examiner Name	Chen, Bret P.
(use as many sheets as necessary)		Attorney Docket Number	P75-17-03
Sheet	3	of	4

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	K6	Gokan et al., "Dry Etch Resistance of Organic Materials," J. Electrochem. Soc. 130:1, 143-146 (Jan. 1983)	
	K7	LIN, "Multi-Layer Resist Systems", Introduction of Microlithography," American Chemical Society, 1983, pp. 287-350, IBM T.J. Watson Research Center, Yorktown Heights, New York 10598.	
	K8	COWIE, "Polymers: Chemistry and Physics of Modern Materials," 1991, pp. 408-409, 2 nd Ed, Chapman and Hall, a division of Routledge, Chapman and Hall, Inc., 29 West 35 th Street, NY, NY 10001-2291.	
	K9	KRUG et al., "Fine Patterning of Thin Sol-Gel Films," Journal of Non-Crystalline Solids, 1992, pp. 447-450, vol. 147 & 148.	
	K10	Kotachi et al., "Si-Containing Positive Resist for ArF Excimer Laser Lithography," J. PhotopolymerSci. Tech. 8(4) 615-622, 1995.	
	K11	Krauss et al., "Fabrication of Nanodevices Using Sub-25nm Imprint Lithography," Appl. Phys. Lett 67(21), 3114-3116, 1995	
	K12	CHOU et al., "Imprint of Sub-25 nm Vias and Trenches in Polymers," Applied Physics Letters, November 20, 1995, pp. 3114-3116, vol. 67(21).	
	K13	CHOU et al., "Imprint Lithography with 25-Nanometer Resolution," Science, Apr. 5, 1996, pp. 85-87, vol. 272.	
	K14	HAISMA et al., "Mold-Assisted Nanolithography: A Process for Reliable Pattern Replication," Journal of Vacuum Science and Technology, Nov/Dec 1996, pp. 4124-4128, vol. B 14(6).	
	K15	CHOU et al., "Imprint Lithography with Sub-10nm Feature Size and High Throughput," Microelectronic Engineering, 1997, pp. 237-240, vol. 35.	
	K16	SCHEER et al., "Problems of the Nanoimprinting Technique for Nanometer Scale Pattern Definition," Journal of Vacuum Science and Technology, Nov/Dec 1998, pp. 3917-3921, vol. B 16(6).	

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		Application Number	10/687,519		
		Filing Date	10/16/2003		
		First Named Inventor	Truskett et al.		
		Group Art Unit	1762		
		Examiner Name	Chen, Bret P.		
Sheet	4	of	4	Attorney Docket Number	P75-17-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	K17	XIA et al., "Soft Lithography," Annu. Rev. Mater. Sci., 1998, pp. 153-184, vol. 28.	
	K18	XIA et al., "Soft Lithography," Agnew. Chem. Int. Ed., 1998, pp. 550-575, vol. 37.	
	K19	COLBURN. et al., "Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning", Proc. of SPIE, 1999, pp. 379-389, vol. 3676.	
	K20	CHOU et al., "Lithographically-Induced Self Assembly of Periodic Polymer Micropillar Arrays," Journal of Vacuum Science and Technology, Nov/Dec 1999, pp. 3197-3202, vol. B 17(6).	
	K21	CHOI et al., "Design of Orientation Stages for Step and Flash Imprint Lithography," Precision Engineering, Journal of the International Societies for Precision Engineering and Nanotechnology, 2001, pp. 192-199, vol. 25.	
	K22	CHOU, "Nanoimprint Lithography and Lithographically Induced Self-Assembly," MRS Bulletin, July 2001, pp. 512-517.	
	K23	Nguyen, A. Q., "Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography," University of Texas at Austin, August 2001.	

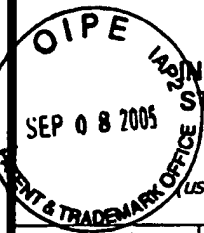
Examiner Signature		Date Considered	4/1/06
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 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				APPLICATION NUMBER	10/687,519
				FILING DATE	10/16/2003
Sheet 1 of 9				FIRST NAMED INVENTOR	Truskett et al.
				Group Art Unit	1775-1762
				Examiner Name	Turner, Archene A. <i>chen</i>
				Attorney Docket Number	P75-17-03

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
<i>[initials]</i>	11	6,541,356	B2	Fogel et al.	4/1/2003	
	12	2004/0150129		Hougham et al.	8/5/2004	
	13	6,753,131	B1	Rogers et al.	6/22/2004	
	14	6,335,149	B1	Xu et al.	1/1/2002	
	15	6,600,207	B2	Huang et al.	7/29/2003	
	16	5,956,216		Chou	9/21/1999	
	17	5,820,769		Chou	10/13/1998	
	18	5,204,381		Zeigler	4/20/1993	
	19	6,066,269		Wei et al.	5/23/2000	
	110	5,905,104		Eklund et al.	5/18/1999	
	111	6,468,896	B2	Rohr et al.	10/22/2002	
	112	6,342,097	B1	Terry et al.	1/29/2002	
	113	5,234,793		Sebald et al.	8/10/1993	
	114	2004/0202872	A1	Fang et al.	10/14/2004	
	115	4,517,337		Lockhart et al.	5/14/1985	
	116	2004/0241338	A1	Foster et al.	12/2/2004	
	117	2003/0166814	A1	Sparrowe et al.	9/4/2000	

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				Group Art Unit	2775-1762
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<i>[Signature]</i>	I18	3,919,351		Chang et al.	11/11/1975	
	I19	4,514,439		Rounds	4/30/1985	
	I20	4,271,258		Watariguchi	6/2/1981	
	I21	4,988,274		Kenmochi	1/29/1991	
	I22	6,114,404		Deeken et al.	9/5/2000	
	I23	6,583,248	B1	Bowen	6/24/2003	
	I24	5,853,446		Carre et al.	12/29/1998	
	I25	6,251,207	B1	Schultz et al.	6/26/2001	
	I26	4,687,707		Matsuo et al.	8/18/1987	
	I27	5,314,731		Yoneda et al.	5/24/1994	
	I28	5,482,768		Kawasato et al.	1/9/1996	
	I29	2005/0160934	A1	Xu et al.	7/28/2005	
	I30	6,849,558	B2	Schaper	2/1/2005	
	I31	6,936,194	B2	Watts	8/30/2005	

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				Group Art Unit	1775 1762
				Examiner Name	Turner, Archene A. <i>Chew</i>
				Attorney Docket Number	P75-17-03
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		Office	Number ²	Kind Code ³ (if known)				
<i>[Signature]</i>	I32	WO	87/02935		Long et al.	5/21/1987		
	I33	JP	02192045		Mineo et al.	7/27/1990		
	I34	WO	02/22916		Pettersson et al.	3/21/2002		
	I35	EP	1460738	A2	Gimkiewicz et al.	9/22/2004		
	I36	JP	61-40845		Matsuo et al.	2/27/1986		
	I37	JP	2-248480		Yoneda et al.	10/4/1990		
	I38	JP	3-90345		Nobuyoshi et al.	4/16/1991		
	I39	JP	9-278490		Toru et al.	10/28/1997		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER	10/687,519
				FILING DATE	10/16/2003
				FIRST NAMED INVENTOR	Truskett et al.
				Group Art Unit	2775 1762
Sheet	4	of	9	Examiner Name	Turner, Archene A. <i>Can</i>
				Attorney Docket Number	P75-17-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cita No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>[Signature]</i>	140	BLOMQUIST ET AL., Fluorinated Acrylates in making Low-Loss, Low-Birefringence, and Single-Mode Optical Waveguides with Exceptional Thermo-Optic Properties, SPIE Conference on Linear Optical Properties of Waveguides and Fibers, Vol. 3799, pp. 266 - 279 7/1/1999	
	141	BENDER ET AL., Fabrication of Nanostructures using a UV-based Imprint Technique, Microelectronic Engineering 53, pp. 233 -236 1/1/2000	
	142	ELDADA ET AL., Robust Photopolymers for MCM, Board, and Backplane Optical Interconnects, SPIE Vol. 3288, pp. 175 - 191 1/1/1998	
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	146	ROOS ET AL., Abstract of Nanoimprint Lithography with a Commercial 4 Inch Bond System for Hot Embossing, Proceedings of SPIE Vol. 4343, pp. 427-435 10/1/2001	
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<i>[Signature]</i>	148	Sol-Gel Technology, www.chemat.com/html/solgel.html 1/14/2004	

Examiner Signature	<i>[Signature]</i>	Date Considered	<i>[Signature]</i>
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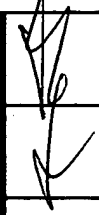

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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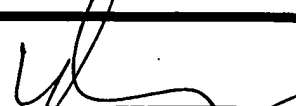
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				Attorney Docket Number	P75-17-03

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	149	Sol-Gel Chemistry, www.prsc/usm.edu/mauritz/solgel.html 2/2/2004	
	150	HAKOVIRTA ET AL., Optical Properties of Fluorinated Diamond-Like Carbon Films Produced by Pulsed Glow Discharge Plasma Immersion Ion Processing, Journal of Applied Physics 88(3); pp1456-1459 8/1/2000	
	151	APPLICATION NO. 10/827,118, naming Inventors Watts et al., entitled A Method of Forming a Deep-Featured Template Employed in Imprint Lithography, filed 4/19/2004	
	152	APPLICATION NO. 10/789,319, naming Inventors Xu et al., entitled Composition for an Etching Mask Comprising a Silicon-Containing Material, filed 2/27/2004	
	153	APPLICATION NO. 10/919,062, naming Inventors Xu et al., entitled Composition to Provide a Layer with Uniform Etch Characteristics, filed 8/16/2004	
	154	APPLICATION NO. 11/012,374, naming Inventors Xu et al., entitled Composition to Reduce Adhesion Between a Conformable Region and a Mold, filed 12/15/2004	
	155	APPLICATION NO. 11/068,171, naming Inventors Xu et al., entitled Composition to Reduce Adhesion Between a Conformable Region and a Mold, filed 2/28/2005	
	156	Data Sheet for MAK (Methyl n-Amyl Ketone), www.sp-chem.com/fine_e 1/1/2003	
	157	Data Sheet for gamma-Glycidioxypropyltrimethoxysilane, www.powerchemical.net/3100.htm 12/5/2003	

NOT PUBLK

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				Group Art Unit	1775 1762
Sheet 6 of 9				Examiner Name	Turner, Archene A. Chen
				Attorney Docket Number	P75-17-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	158	Silicon or Silica, www.mii.org/Minerals/photosil 3/31/2005	
	159	Electronic Devices and Circuits, people.deas.harvard.edu/~jones/es154/lectures/lecture_2/materials/materials.html 3/31/2005	
	160	Data Sheet for Cymel 303ULF, www.cyttec.com	
	161	Data Sheet for Cycat 4040, www.cyttec.com	
	162	International Chemical Safety Card for p-Toluenesulfonic Acid, www.itcilo.it/english/actrav/telearn/osh/ic/104154.htm 12/5/2003	
	163	Data Sheet for p-Toluenesulfonic Acid, NIOSH Manual of Analytical Methods (NMAM), Fourth Edition	
	164	Data Sheet for Dow Corning Z-6018,	
	165	Data Sheet for Methyl Amyl Ketone, www.arb.ca.gov/db/solvents/solvent_pages/Ketones-HTML/methyl_amyl.htm 3/31/2005	
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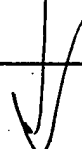
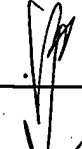
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				Attorney Docket Number	P75-17-03

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	167	Abstract of Japanese Patent 61-040845, 2/27/1986	
	168	Abstract of Japanese Patent 02-248480, 10/4/1990	
	169	Abstract of Japanese Patent 3-090345, 4/16/1991	
	170	Abstract of Japanese Patent 09-278490, 10/28/1997	
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	172	Abstract of Japanese Patent 02-248480, 10/4/1990	
	173	APPLICATION NO. 11/187,406, naming Inventors Xu, entitled Composition for adhering materials together, filed 7/22/2005 <div style="text-align: right;">NOT PUBLIC</div>	
	174	XU ET AL., Development of Imprint Materials for the Step and Flash Imprint Lithography Process, SPIE Microlithography Conference 2/1/2004	
	175	GEHOSKI ET AL., Indium Tin Oxide Template Development for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2005	

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<i>[Signature]</i>	176	DAUKSHER ET AL., Repair of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 22(6), pp. 3306-3311 11/1/2004	
	177	NORDQUIST ET AL., Image Placement Issues for ITO-based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B, pp. 695-701 3/1/2004	
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	179	RESNICK ET AL., Imprint Lithography: Lab Curiosity or the Real NGL?, SPIE Microlithography Conference 2/1/2003	
	180	MANCINI ET AL., Analysis of Critical Dimension Uniformity for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2003	
	181	MANCINI ET AL., Hydrogen Silsesquioxane for Direct Electron-Beam Patterning of Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B 20(6), pp. 2896-2901 11/1/2002	
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<i>[Signature]</i>	183	NORDQUIST ET AL., Critical Dimension and Image Placement Issues for Step and Flash Imprint Lithography Templates, 22nd Annual BACUS Symposium on Photomask Technology, Monterey, CA 9/1/2002	
<i>[Signature]</i>	184	RESNICK ET AL., Release Layers for Contact and Imprint Lithography, Semiconductor International, pp. 71-80 6/1/2002	

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<i>[Signature]</i>	185	BAILEY ET AL., Template Fabrication Schemes for Step and Flash Imprint Lithography, Microelectronic Engineering, 61-62, pp. 461-467 1/1/2002	
<i>[Signature]</i>	186	RESNICK ET AL., High Resolution Templates for Step and Flash Imprint Lithography, SPIE Microlithography Conference 2/1/2002	
<i>[Signature]</i>	187	RESNICK ET AL., New Methods for Fabricating Step and Flash Imprint Lithography Templates, NIST-SPIE Conference on Nanotechnology 9/1/2001	

Examiner Signature	<i>[Signature]</i>	Date Considered	4/14/06
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

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Title of Invention

LOW SURFACE ENERGY TEMPLATES

Application Number : 10/687519



Confirmation Number: 5222

First Named Applicant: Van Truskett

Attorney Docket Number: P75-17-03

Art Unit: 1775

Examiner: Archene A. Turner

Search string: (6468642 or 5542978 or 5837314 or 6565776 or 6503914 or 6649272 or 6204343 or 4614667 or 3810874 or 6737489 or 6721529 or 6664306 or 6790905 or 6544594 or 6774183 or 6830819 or 6802870 or 5389696).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
1	6468642	2002-10-22	Bray et al.	B1		
2	5542978	1996-08-06	Kindt-Larsen et al.			
3	5837314	1998-11-17	Beaton et al.			
4	6565776	2003-05-20	Li et al.	B1		
5	6503914	2003-01-07	Benish et al.	B1		
6	6649272	2003-11-18	Moore et al.	B2		
7	6204343	2001-03-20	Barucha et al.	B1		
8	4614667	1986-09-30	Larson et al.			
9	3810874	1974-05-14	Mitsch et al.			
10	6737489	2004-05-18	Linert et al.	B2		
11	6721529	2004-04-13	Chen et al.	B2		
12	6664306	2003-12-16	Gaddam et al.	B2		
13	6790905	2004-09-14	Fitzgerald et al.	B2		
14	6544594	2003-04-08	Linford et al.	B2		
15	6774183	2004-08-10	Palumbo et al.	B1		
16	6830819	2004-12-14	Kaplan et al.	B2		
17	6802870	2004-10-12	Chang et al.	B2		
18	5389696	1995-02-14	Dempsey et al.			

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	4/14/06